

100-SC

00000018



## WW Engineering & Science, Inc.

5555 Glenwood Hills Parkway SE • P.O. Box 874 • Grand Rapids, Michigan 49588-0874 • PH(616)942-9600 FX(616)942-6499



August 9, 1991

VIA TELECOPIER

Ms. Sheila Sullivan  
Remedial Project Manager  
U.S. Environmental Protection Agency  
230 South Dearborn Street 5HS-11  
Chicago, IL 60604

RE: Skinner Landfill: Estimated Quantity of Drums

Dear Ms. Sullivan:

As we discussed in our meeting of July 3, 1991, the purpose of this letter is to present an estimate of the number of buried drums which could potentially be present in the buried waste lagoon area of the Skinner Landfill site.

Estimates presented herein are based on the ground penetrating radar (GPR) survey performed by Roy F. Weston (WESTON) as part of their Phase I Remedial Investigation (RI) activities. As presented in the Phase II RI report generated by WW Engineering & Science (WWES), WESTON's GPR survey of the buried waste lagoon area revealed eight potential drum nests. The extent of the buried objects is outlined in the Phase II RI report Figure 1.3. A copy of this figure is enclosed with this letter.

Based on the area of drum-like signals shown on this figure, an estimate has been made of the maximum quantity of drums which could be present in this area. The estimate has been made based on buried drums being present stacked two high, as indicated from historical site observations. No allowance has been made for soils/debris being present between drums.

Based on a standard cylindrical drum size of 24" diameter by 36" height, we estimate that as many as 7,700 drums may be present in the buried waste lagoon volume. If a 20% allowance is made for spacing between the drums, approximately 6,100 drums could be present.

Please note that these estimates are based strictly on the anomalies present in the GPR area and drum sizes. The estimates do not, therefore, take into account any potential

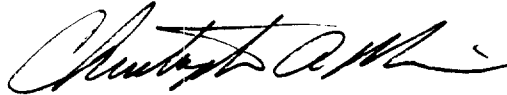
Ms. Sheila Sullivan  
August 9, 1991  
Page 2

deformations in the drums or portions of the area in question where drums are not present.

Please contact us if you have questions or comments regarding this project.

Sincerely,

WW ENGINEERING & SCIENCE  
ENVIRONMENTAL SERVICES DIVISION



Christopher A. Miron  
Project Engineer



Craig A. VandenBerge  
Project Manager

cc: M. Lehar, Ohio EPA SWD  
F. Bartman, U.S. EPA, Region V  
L. Pugh, WWES  
04003, 32